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# United States Patent [19]

Langerman

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## [54] SPARE PARTS FOR USE IN OPHTHALMIC SURGICAL PROCEDURES

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[52] **U.S. Cl.** ..... **623/6**; 623/4; 623/5; 623/66

[58] **Field of Search** ..... 623/4–6, 66

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[57] **ABSTRACT**

Ophthalmic "spare parts" which are made of biocompatible material and may be implanted by a surgeon in either the ciliary sulcus or the residual natural capsular bag of a patient's eye following cataract surgery so as to serve as a receptacle for an IOL or other optical or mechanical device, may have the form of an either anteriorly incomplete and posteriorly complete capsular bag-like structure with a generally toroidal equatorial region, or the form of a both anteriorly and posteriorly incomplete generally toroidally ring-shaped capsular bag-like structure, the interior space of the toroidal part of the structure between the anterior and posterior walls constituting a compartment, which may be divided into two subcompartments by an interior circumferential rib, into which an optical or other device may be inserted. The capsular bag-like structures can also serve to provide an enhanced capability of inhibiting posterior capsular opacification in the residual natural capsular bag, can have a circumferentially resiliently compressible split washer-like configuration, and can have visually perceptible features on the anterior and/or posterior walls to facilitate manipulation and/or orientation of those structures and the optical or other devices being inserted therein.

**49 Claims, 11 Drawing Sheets**